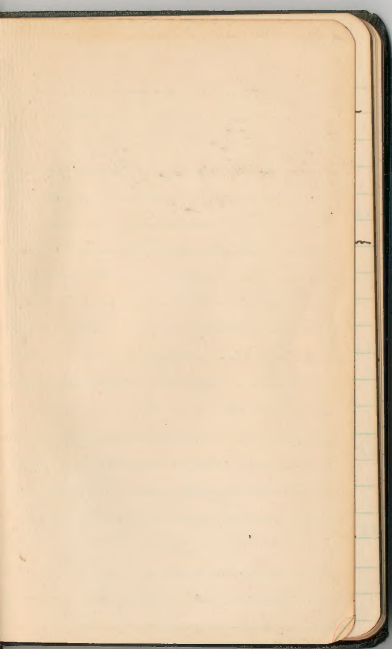
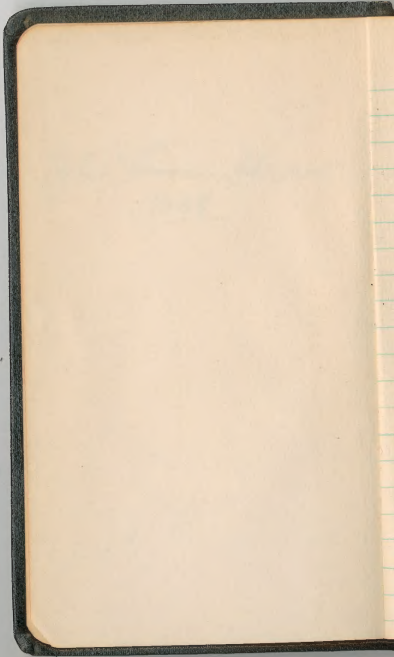


13724-14738

John Thomas Howell

1938





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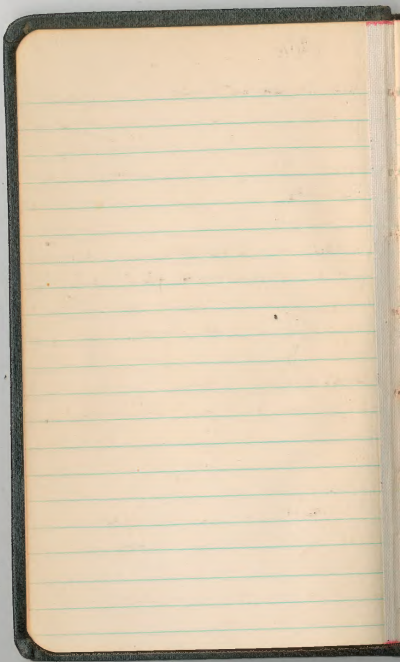
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Mar. 20, 1938.

Serpentine outcrop on Coyote Creek, 3 miles east of Madrone on road to Madrone Springs, Santa Clara Co. (With Lewis S. Rose.)

13724. *Ceanothus Fendleri* McMillan

Flowers creamy-white, the calyx sometimes with a purplish dot or dash on one sepal.

13725. *Dodecatheon*

In full flower or going to fruit. Peduncle with fine pubescence.

13726. *Dodecatheon*

Mostly in bud. The corolla-lobes violet at tips, almost white at base.

N.B. - The *dodecatheon* did not grow on the serpentine.

Apr. 3, 1938.

13727. *Hernieria cinerea* DC.

Clay flat, 5 miles east of
Livermore on road to Tesla,
Alameda Co.

13728. *Sagina apetala* Ard.

Flat where water has stood,
middle part of Canal Hollow,
San Joaquin Co.

13729. *Trifolium laciniatum*

With preceding. Corolla pale
with purple spot.

13730. *Trifolium depauperatum* ^{Desv.}

With preceding. Flowers purplish.

13731. *Trifolium depauperatum*

With preceding. Flowers whitish
with purple spot.

Apr. 3, 1938.

13732. *Trifolium amplexens* ^{T. & G.}
Flowers pale with dark spot.
Stems slender. With preceding.

13733. *Trifolium amplexens* T. & G.
Flowers without dark spot, larger.
Plants larger. With preceding.

The 5 clovers (& others unrelated)
grew on a flat within a few
feet of each other.

13734. *Festuca*
with the preceding.

13735. *Festuca*
near the preceding.

Apr. 10, 1938.

Trip to Hospital Canyon,
San Joaquin Co., with
Dr. Robert Hoover.

Alkaline flat in eastern
Livermore Valley about midway
between west ends of Altamont &
Patterson passes, Alameda Co.

13736. *Puccinellia simplex*

13737. *Astrogalinus tener*

Banner with white center bordered
by violet, the wings violet with
white spots near the outer end.

13738. *Allocarya humistrata*

Stems prostrate from very base.

13739. *Spergularia*

Apr. 10, 1938.

13740. *Thiella maritima*

13741. *Trifolium cyathiferum*
Culles somewhat inflated in fruit.

13742. *Spergularia*

East side of Patteran Pass,
Alameda Co.

13743. *Collinsia bicolor*

The lateral lobes of the lower lip
violet.

13744. *Hesperomecon affine*.

Apr. 10, 1938.

Near Midway, Alameda Co.

13745. *Lionanthus bicolor*.

Limbs cream-color or pale yellowish,
throat yellow, tube rosy.

13746. *Erysimum capitatum*

Petals at first lemon-yellow,
getting paler in age.

13747. *Tropidocarpum cyparidium*

13748. *Descurainia Sophia*

13749. *Echacholtzia unicolorata*?

Petals deep orange-red.

13750. *Sisymbrium Iris*.

Tracy, San Joaquin Co.

Apr. 10, 1938.

Hospital Canyon, San Joaquin Co.

13751. *Festuca confusa* Piper.

13752. *Festuca* *Eastwoodae* Piper

Only one plant seen.

13753. *Madia radiata*

Producing one of the most brilliant
floral displays I have ever seen.

13754. *Trifolium dichotomum*.

13755. *Amsinckia verrucosa*

13756. *Amsinckia* *Eastwoodae*

13757. *Plagiobothrys fulvus* var.
infectivus

13758. *Streptanthus lilacinus*

Petals pale & white.

Apr. 10, 1938.

Hospital Canyon, San Joaquin Co.

13759. *Eschscholtzia cress.*

13760. *Ribes gracillimum*

13761. *Pogogyne serpyllodes.*

13762. *Forestiera neomexicana*

13763. *Phacelia Breweri*

13764. *Streptanthus Parryi*

13765. *Cryptantha nevadensis*

13765A. *Cryptantha Clevelandii* flosa



13766. *Carex brevicaulis* Muhl.

Lake Merced, San Francisco

Apr. 12, 1938.

May 1, 1938.

Colma Canyon, San
Bruno Hills, San Mateo Co.

13767. *Castilleja*

Inflorescence yellow.

13768. *Phacelia*

13769. *Layia*

13770. *Lupinus*

13771. *Phacelia*

Corolla open campanulate,
violet

13772. *Amaranthus hybridus*

13773. *Oenothera*

May 1, 1938.

San Bruno Hills s. of
Visitation Valley, San
Mateo Co.

13774. *Carex brevicaulis*

13775. *Lupinus variicolor*

13776. *Carex substricta*

13777. *Carex tumulicola*

Near South San Francisco on Hillside
Ave. about $\frac{1}{2}$ mile - 1 mile east of
Bayshore Highway, San Mateo Co.

13778. *Carex substricta*

13779. *Carex substricta*

13780. *Carex Barbanae*

13781. *Carex Harfordii*

May 1, 1938.

13782. *Carex substricta*

13783. *Carex substricta*

13784. *Allocarya*

13785. *Carex Hurdleyi*

13786. *Carex breviligulata*

May 22, 1938.

San Anselmo Canyon sw. of
Fairfax, Marin Co.

13787. *Lupinus maricensis* Entw.
spec. nov.

13788. *Rubus*

13789. *Lionthus acicularis*

13790. *Caryx densa* or relative

13791. *Streptanthus pulchellus*.

Inflorescence secund. Calyx a little irregular, the tips of the two lateral sepals directed upwards towards the tip of the upper sepal, bright rosy-violet, the sepals strongly carinate & concave, the leaf glabrous or usually with a few scattered white trichomes. Petals unequal, the two upper with broader blades that are erect or

May 22, 1938.

somewhat recurved, parallel; the two lower narrower and divaricate, the blades of all lavender with wavy-purplish veins and midrib, the claws pale greenish or tinged with a little purple. Four stamens polleniferous in two unequal pairs, the other two stamens sterile and inserted nearly or quite to the anthers. Siliques glabrous in all plants examined except two.

This differs from *S. pulchellus* as described by Greene in Man. Bay Reg. Bot., 17, in not being "much-branched," the flowers more scattered, the sterile anthers being much-reduced, and the pods being usually glabrous.

This grows on serpentine above the lowest cascade.

May 22, 1938.

San Anselmo Canyon av. of
Fairfax, Marin Co.

13792. *Festuca prurica*

13793. *Festuca Grayi*

13794. *Stipa pulchra*.

13795. *Lesingia microdenia*

This and the grasses grew with
the *Streptanthus* on serpentine.

13796. *Godetia quadrivulnera typica*

13797. *Holidiscus discolor*.

13798. *Plectritis siliosa*

13799. *Rubus*

Staminate plant with broad
leaves.

13800. *Marah fabacea*
San Anselmo Canyon, Marin Co.
May 22, 1938.

13801. *Rubus*
San Anselmo Canyon, Marin Co.
May 22, 1938.

Trip with Dr. R. F. Hoover to
Madera Co.

13802. *Briardivalia globella* *comptata*
Santa Clara - San Benito Co. line
on Bolan Road from Gilroy to
Hollister. May 28, 1938.

13803. *Limnalla aquatica*
with preceding.

May 28, 1938.

Near Hollister on Pocheo Pico
road, San Benito Co. (Where
Eastwood & Howell Nos. 5299-5308
were collected.)

13804. *Brodiaea coronaria*.

13805. *Atriplex spicata*

13806. *Navaretia cotulaefolia*
Where L. & H. No. 5308 was collected.

2 miles ne of Hollister in Lone-
tree district, San Benito Co.

13807. *Mimulus latidens*

13808. *Lepturus cylindricus*.

13809. *Gnaphalium palustre*

13810. *Allocaarya trachycarpa*

May 28, 1938.

13811. *Phalaris Lemmonii*

13812. *Lolium multiflorum*.

On Arroyo Los Picachos, 3 miles
ne. of Hollister, San Benito Co.

13813. *Hottelina frutescens*.

13814. *Calochortus venustus*

13815. *Carex nudata*

13816. *Rumex californicus*

Just east of summit of Pacheco
Pine, Merced Co.

13817. *Senecio Breweri*.

13818. *Godetia purpurea*

where E. & H. No. 5333 was collected

May 28, 1938.

13819. *Hendleya laxa* var.

13820. *Phacelia* ~~sp.~~
where C. & H. No. 5329 was collected

13821. *Cirsium cymosum*.
where E. & H. No. 5362 was collected.

East base of Posadero Pass grade,
Merced Co.

13822. *Eryngium*

Grass hills 10 miles n. of Los
Barros, Merced Co.

13823. *Hemizonia obconica*.

13824. *Hemizonia Kelloggii*

13825. *Phacelia*

13826. *Sparganium atropurpureum*.

May 28, 1938.

13827. *Hellesteria lanata*

13828. *Eriogonum vestitum*

This and *Eriog. indicatum* grew on peculiar diatomaceous shale or ponding soil about to the exclusion of everything else except the *Spergularia*. Gypsum interbedded in the shale.

13829. *Eriogonum indicatum*

Stems firm woody, frequently shrubby bases. The inflated stems a peculiar blue green color with the bloom.

Flowers pale greenish white or rather pale greenish-yellowish white!

13830. *Eriogonum tenuissimum*

This and the 3 following grew on the higher slopes above the 2 preceding but in different soil - a regular clay soil without the diatomaceous shale or gypsum.

May 28, 1938.

13831. *Eriogonum*

13832. *Eriogonum fasciculatum*
var. *obtusiflorum*.

13833. *Eriogonum angulosum*.

2 miles south of Los Banos on
creek bank, Merced Co.

13834. *Stachys albens*.

Between Ukita and Gustine,
Merced Co.

13835. *Godetia purpurea*.

13836. *Bordivalia globella* var.
campestris

13837. *Bordivalia cleistogama*.

May 29, 1938.

Buhoach, Merced Co.

13838. *Carex* *Dudleyi*

1 mile n. of Chowchilla River on
Valley Highway, Merced Co.

13839. *Eryngium*

Chowchilla, Madera Co.

13840. *Bredivalia* *cleistogama*.

13841. *Bredivalia* *globella* var.
compressa

13842. *Psilocarphus* *globiferus*.

13843. *Psilocarphus* *tenellus*

13844. *Downingia* *mirabilis*

13845. *Eryngium*

13846. *Navaretia* *nigellaeformis*

May 29, 1938.

4 miles east of Churchill,
Madison Co.

13847. *Godetia purpurea*.

13848. *Ammannia* *Eutrochiae* X
Lycopersoides - det. Chishti

13849. *Ammannia Lycopersoides*

13850. *Ammannia Lycopersoides*
Like 13849 but fls a little
larger.

13851. *Salvia cardioceae*.

2 miles w. of Raymond, Madison Co.

13852. *Ullorhiza bracteata*

13853. *Syntherisma*

May 29, 1938.

Raymond, Modera Co.

13854. *Calycadenia mollis*.

13855. *Centaurium venustum*.

13856. *Galium pubens* var.
scabridum

13857. *Godetia Williamsii*

13858. *Chorizanthe stellulata*

13859. *Hemizonia Hermannii*

13860. *Lyophylla glandulosa*

13861. *Polygonum californicum*

13862. *Gilia filipes*

May 29, 1938.

3 miles from Raymond on road to
Coarse Gold, Modera Co.

13863. *Calochortus superbus* var.
robustus.

7 miles from Raymond on road to
Coarse Gold, Modera Co.

13864. *Pendemon lactus*

13865. *Galium Nuttallii* farn?

13866. *Trifolium obtusiflorum*
Gardens - certain very acid to
taste.

13867. *Navarretia*

13868. *Triphyllum confertiflorum*.

About midway between Raymond &
Coarse Gold, Modera Co.

13869. *Stemmatanthus diversifolius*
Where E. & H. No. 5451 was collected.

May 29, 1938.

4.5 miles from Coarse Gold on
road to O'Neal's, Modera Co.

13870. *Mammals floribundus*
where E. & H. No. 5444 was collected

13871. *Phacelia* ~~sp.~~
where E. & H. No. 5445 was collected

13872. *Phacelia* ~~sp.~~
With procting but stems numerous
from cordex and spreading, not
few or solitary, and erect.

13873. *Erysimum capitatum*
where E. & H. No. 5442 was collected.

Coarse Gold, Modera Co.

13874. *Phacelia platyloba*

13875. *Cryptantha intermedia*

May 29, 1938.

4 miles from Oakhurst on road
to Coarse gold, Modera Co.

13876. *Carex Hurdleyi*

5 miles from Oakhurst on road
to Ahwahnee, Modera Co.

13876. *Carex Hurdleyi*

13877. *Eleocharis Bolanderi*.

13878. *Wyethia foliosa*.

4 miles from Ripinnavasee on
road to Mariposa, Mariposa Co.

13879. *Eriophyllum Hermannii*

13880. *Lupinus mariposensis*, sp. n.

13881. *Lupinus robustus*

13882. *Godetia Hurdleyana*.

13883. *Godelia Hudleyana*?

Uama, Mariposa Co.

13884. *Cirsium*

May 29, 1938.

Burlingame, San Mateo Co.

June 4, 1938.

13885. *Phalaris californica*.

13886. *Vicia benghalensis*

13887. *Rubus*

♀

13888. *Rubus*

♀

Leaves & leaflets broad & blunt,
especially the third leaflet on the
sterile shoots.

13889. *Rubus*

♂

13890. *Rubus*

Only sterile shoots obtainable -
taken because of the cut leaflets
& their pubescence.

13891. *Rubus*

Plants naturalized along creek
bank in Blanding.

June 4, 1938.

13892. *Senecio sylvaticus*

Open in chaparral, Throckmorton
Trail, Mt. Tamalpais. June 5, 1938.

13893. *Rubus*

♀

Shaded canyon near Fern Canyon,
Mt. Tamalpais. June 5, 1938.

June 5, 1938.

13894. *Phacelia californica*
Corolla tubular campanulate, the
lobes mostly erect, scarcely exceeding
the calyx. Corolla violet.
Between Fern Canyon + Azules Flat,
Matt Davis Trail, Mt. Tonalpays.

13895. *Carex debiliformis*
Azules Flat, Mt. Tonalpays on
Matt Davis Trail se. of West Point.

13896. *Carex ablata*
With preceding. *C. obrepens* & *C.*
Bohndeni & *C. serotensis* too.

13897. *Cisium montigenum*.
Flowers lavender-pink. With
preceding.

13898. *Rubus*
With preceding.

June 5, 1938.

13899. *Carex Barbarea* x *obtusata*?
East of Bootjack on Mutt Haven
Trail, Mt. Tantalus.

13900. *Carex Barbarea*
Between Bootjack and Mt.
Shasta, Mt. Tantalus.

13901. *Carex gynodynum*
Rock Spring, Mt. Tantalus.

13902. *Carex Cuatrecasasii*

13903. *Carex densa*

13904. *Carex sub-broctata*

13905. *Carex densa* - discarded.

13906. *Rubus*

East of West Point on old R.R.,
Mt. Tantalus.

13907. *Streptanthus pulchellus* Greene
Robust individual about 2 ft. tall
& widely branched growing on road
cut near Rock Spring, Mt.
Tanzanite. June 9, 1938.

13908. *Festuca pacifica*
Lamar Hill, Mt. Tanzanite
June 9, 1938.

13909. *Festuca pacifica* Grayi
With preceding; in same patch
June 9, 1938.

13909A. *Burdickia pedunculata*?
Swampy springy place east of
Bortick, Mt. Tanzanite.
June 9, 1938.

June 19, 1938.

13910. *Senecio sylvaticus*

Plant 3 ft. tall in partial shade.
Cascade Canyon, Mill Valley,
Marin Co.

13911. *Bromus Oerthianus* var. *Hallii*
with preceding. *vulgaris* ^{finds} ~~smaller~~

13912. *Bromus vulgaris*
Near preceding

13913. *Bromus mollis*
Zigzag Fire Trail, Mt. Tamalpais.

13914. *Festuca megalaria*
With preceding

13915. *Festuca octoflora*
Throckmorton Fire Trail, Mt.
Tamalpais.

June 19, 1938.

13916. *Navaretia squarrosa*

Habits nephritic. With preceding.

13917. *Navaretia mellita*

Habits not nephritic or odorous.

Corolla inverted & nearly concealed.

13918. *Rubus*

Trailing along the ground or climbing
a little way into shrubs. With
Rhododendron occidentale, *Myrica californica*
Rhamnus californica. "Azalea Flat"
on Math Lewis Trail, between Fern
Canyon & Laguna Creek, Mt. Sanalpais.

13919. *Bromus laevipes*

On serpentine, Bootjack, Mt.
Sanalpais.

13920. ^{*Festuca*}~~*Bromus*~~ *californica*

With preceding.

June 19, 1938.

13921. Rubus

Trailing among azaleas and associated shrubs at Bootjack, Mt. Daniel. — These plants may represent topotypes of Rubus Eastwoodianus Rydb. The day the type of that species was collected, Rydberg was Miss Eastwood's guest on the mountain and she tells me they went to Rock Spring. In the afternoon she left Rydberg since she was to meet the Boling Club in Mill Valley and it seems not unlikely that he may have collected specimens of the blackberry around Bootjack which is not far distant from Rock Spring. Or he may have collected it along the Rock Spring Trail. At any rate it would seem that Rubus Eastwoodianus is the nearly globose blackberry that grows with the azaleas on the south side of the mountain.

June 19, 1938.

Head of Steep Ravine, Mt.
Tanzelpris.

13922. *Streptanthus pulchellus*

13923. *Placelia californica*
Corolla very pale lavender.

13924. *Carex densa*

13925. *Carex brevicaulis*

13926. *Ceanothus*

Rattlesnake - only one shrub
seen.

13927. *Ceanothus*

With preceding.

June 19, 1938.

East
west of Rattlesnake Camp on
Trail 80 Trail, Mt. Sanalpois

13928. *Melica Harfordii*

13929. *Rubus*

As preceding.

13930. *Rubus*

Unusually pubescent form growing
on road cut of old railroad to
Muir Woods short distance west of
the Trestle, Mt. Sanalpois.

June 30, 1938.

North Berkeley Hills, Alameda Co.

13931. *Gundelia*

13932. *Lupinus Bridgesii*

Stems spreading. Plant grayer &
leaves more spreading.

June 30, 1938.

13933. *Lupinus juanderus*

Stems spreading. Plant greener
& pubescence more appressed.

13934. *Lupinus densiflorus*

Flowers pale rosy-lavender.

13935. *Rumex transitorius*

Margin of leaves crisped.

13936. *Carex densa*

13937. *Carex gracilis*

Head of Siesta Valley on edge of
brush, Contra Costa Co.

13938. *Navonita mellita*

Glandular herbages with very slight
odor, scarcely mephitic. Corolla
lavender.

June 30, 1938.

Berkeley Hills ne. of Grizzly Peak
near head of Strawberry Canyon on
n. slope in clay soil.

13939. *Cirsium Walkerianum*
Stems erect. Flowers light rose-
purple. Only 1 plant seen.

13940. *Cirsium Walkerianum*
North-east slope near head of
Wildcat Canyon, Berkeley Hills
ne. of Grizzly Peak. Colony of
dozen or so plants individuals
more or less interconnected by
slender rootstocks.

13941. *Grindelia*
North Berkeley. Heads more
leafy involucre than in no.
13931, & flowers much larger.

July 3, 1938.

near west end of Lucas Valley,
Marin Co.

13942. *Cirsium*

Plants spreading by underground
stems. Flowers sordid tan.

13943. *Angelica Tomentosa*

Serpentine slopes at head (west
end) of Lucas Valley, Marin Co.

13944. *Centaurium tricanthum*

13944A *Eriogonum vinnosum*
var. *caninum*.

13945. *Streptanthus secundus*

Stony Point, Sonoma Co.

13946. *Guidelia*

13947. *Eryngium*

Flowers lavender.

July 3, 1938.

Stony Point, Sonoma Co.

13948. *Carex* *Hudleyi*

13949. *Carex*

13950. *Carex* *breviculis*

13951. *Navaretia* *aquarosa*.

Herbage nephritic

13952. *Trifolium* *amoenum*.

13953. *Cirsium* *Walkerianum* var.

Stems erect, 3 ft. tall, plants
spreading by rhizomes. Flowers
aridid white at first.

July 3, 1938.

3 miles n. of Sebastopol,
Sonoma Co.

13954. *Carex brevicornis*

13955. *Rhamnus californica*.

Pittkin Marsh, Sonoma Co.

13956. *Minulus moschatus*.

13957. *Epilobium Watsoni*.

13958. *Achillea Millefolium*

13959. *Gentiana Septentrionalis*

13960. *Cicuta hexagona*

13961. *Zygadenus fontanus*.

13962. *Rumex conglomeratus*

July 3, 1938.

Pekin Marsh, Sonoma Co.

13963. *Orthocarpus amoenus*

13964. *Carex Woodleyi*.

13965. *Carex Dasyi*.

13966. *Carex gracilis*

13967. *Juncus effusus* var. *pacificus*

13968. *Juncus occidentalis*

13969. *Juncus nevadensis*

13970. *Juncus bufonius*

13971. *Juncus phaeocephalus*

13972. *Navaretia viscidula*

Corolla purple, anthers lavender-blue

13973. *Lupinus formosus*.
Vallejo, Solano Co. July 4, 1938.

Senecio junctum, Swisten
Marshes, Solano Co.
July 17, 1938.

13974. *Potentilla pacifica*

13975. *Cicuta Bolanderi*.

13976. *Senecio hydrophilus* var.
pacificus Greene

13977. *Achillea puberula* Rydb.

13978. *Carex Barbarea*
Greene Valley, Solano Co.

13979. *Carex*
Green Valley Falls, Solano Co.

Near Green Valley Falls, Solano
Co. July 17, 1938.

13980. *Boytkinia elata*.

13981. *Lupinus albicaulis*

13982. *Cirsium venustum*.

Swiss Marshes at Suisun,
Solano Co. July 17, 1938.

13983. *Stachys albens*.

13984. *Helenium* - *Helenium*
occidentale Greene.

13985. *Bromus marginatus*
Golden Gate Park at rear of
Academy Bldg. July 26, 1938.

South Fork Yuba River, ca. 5500 ft.,
Nevada Co. Aug. 1, 1938.

13986. *Sidalcea glaucescens*.

13987. *Nema Lobbia*.

3.8 miles s. of Truckee on road to
Brockway, Placer Co. Aug. 1, 1938.

13988. *Lupinus sallowii*
On sagebrush flat.

5 miles n. of Brockway on road to
Truckee, Placer Co. Aug. 2, 1938.

13989. *Urtica Breweri*.

13990. *Arnica alpina*.

13991. *Oenothera heterantha*

13992. *Eleocharis bella*.

Aug. 2, 1938.

13993. *Montia chensis*

1 13994. *Amaranthus californicus*

1 13995. *Trifolium prostratum*

1 13996. *Gilia capillaris*.

13997. *Arnica cordifolia*

13998. *Carex lanuginosa*

1 13999. *Carex aciculata*

1. 14000 *Carex Jonesii*

13 14001. *Carex rostrata*

14002. *Carex aurea*

14003. *Carex fasciculata*

Aug. 2, 1938.

14004. *Carex nebrascensis*

14005. *Carex teneraeformis*

14006. *Carex microptera*

14007. *Allocahiza laspidula*

Near Brockway, Plover Co.

14008. *Cirsium*

14009. *Senecio Senzovella*.

14010. *Aurelanchia alnifolia*

Sand dunes on shore of Lake Tahoe
at Brockway, Plover Co.

14011. *Lupinus Breweri*.

Near Calneva, Plover Co.

14012. *Carex fructa*

14013. *Phacelia*

Nevada

Aug. 2, 1938.

Mt. Rose highway, 2.4 miles
from Incline, Washoe Co.

1 14014. *Carex subfusca*

1 14015. *Carex tenuaciformis*

1 14016. *Carex tenuaciformis*

Mt. Rose highway, 5.2 miles
from Incline, Washoe Co.

14017. *Eriogonum azaleastrum*

14018. *Lupinus candatus*

14019. *Castilleja pinetorum*

1: 14020. *Phacelia*.

Mt. Rose highway, 6.6 miles
from Incline on dry slope, 8550
ft. elev., Washoe Co.

Nevada

Aug. 2, 1938.

14021. *Lupinus calcaratus*.

Banner faint lavender in young
flowers - later white.

14022. *Carex brevipes*

14023. *Carex*

14024. *Carex Preslii*

14025. *Carex multicostrata*

14026. *Carex festuella*

14027. *Carex stramineiformis*

Nevada

Aug. 3, 1938.

Mt. Rose Meadows n. of Incline,
Washoe Co. El. 8500 ft. These
were collected on "Third Creek"
as shown on Cal. Auto. Ass. map.

1 14028. *Habenaria sparsiflora*.

1 14029. *Cirsium* - cf. *utahense*

14030. *Habenaria leucostachya*.

14031. *Chenopodium atrovirens*.

14032. *Lithophagma glabra* var.
bulbifera.

14033. *Mimulus Lewisii*

1 14034. *Linnanthus bicolor*.

14035. *Potentilla Hallii*

14036. *Glyceria pauciflora*.

Nevada

Aug. 3, 1938.

14037. *Ranunculus alismaeifolius*.
14038. *Aster* -aff. *A. foliaceus*?
14039. *Scirpus Congdoni*.
14040. *Scorzonella nutans*.
14041. *Cryptantha affinis*
14042. *Delphinium Andersonii*.
14043. *Navaretia Breweri*.
14044. *Eriogonum Coulteri*
14045. *Collomia tinctoria*
14046. *Rumex triangulivalvis*
14047. *Monardella pallida*.

Nevada

Aug. 3, 1938.

Mt. Rose meadows above Incline
at 8500 ft., Washoe Co. On
"Third Creek".

14048. *Parthenium gracilentus*

14049. *Osmorhiza occidentalis*

14050. *Arctostaphylos nevadensis*.

14051. *Wyethia mollis*

14052. *Smilacina liliacea*

14053. *Achillea millefolium*

14054. *Luzula* - nearest *L. multiflora*
var. *angusta*

14055. *Sagina Linnaei*

14056. *Eriogonum marifolium*

Nevada
Aug. 3, 1938.

14057. *Radiola curvisiliqua*
14058. *Gazophytum Nuttallii* var.
Abramsii.
14059. *Cryptantha glomeriflora*
14060. *Arabis platysperma*
14061. *Potentilla pumila*.
14062. *Aletrisina viscosa*.
14063. *Phacelia*
14064. *Viola Mackenzii*.
14065. *Trifolium monanthum*
14066. *Gazophytum Nuttallii*
14067. *Minulus pumiloides*

Nevada

Aug. 3, 1938.

Mt. Rose meadows above Incline,
Washoe Co. El. 8300 ft. On
"Shind Creek."

14068. *Allocarya laspidula*

14069. *Polygonum Kelloggii*

14070. *Junco badius*

14071. *Polygonum bistatoides*

14072. *Viola purpurea* ssp.
integrifolia

14073. *Samolus septentrionalis*

14074. *Polygonum saratchense*

14075. *Galium bifolium*

14076. *Collinsia brachyophora*

Nevada
Aug. 3, 1938.

14077. *Amica alpina*.

14078. *Gilia aggregata*.

14079. *Lathyrus Langweytii*

14080. *Ribes lasianthum*

14081. *Agastache utricifolia*

14082. *Thalpietrum Fendleri*.

14083. *Ranunculus alismellus*

14084. *Cardamine Breweri*.

14085. *Vernicia alpina* var.
unalobensis.

14086. *Luzula subcylindrica*

14087. *Pedicularis attolens*.

Nevada

Aug. 3, 1938.

mt. Rose meadows n. of Incline,
8500 ft., Washoe Co. On "Third
Creek"

14088. *Minimus Tilingii*

14089. *Ligusticum grayi*

14090. *Saxifraga punctata* var.
arguta.

14091. *Hederotheca alpinum*.

14092. *Mentzelia dispersa*.

14093. *Polygonum Douglasii* var.
latifolium

14094. *Penstemon geminatus*

14095. *Phlox alpinum*

14096. *Veronica serpyllifolia*

Nevada
Aug. 3, 1938.

14097. *Phacelia*

14098. *Phacelia* ~~tristata~~ *see compacta*

14099. *Symphoricarpos*

14100. *Spraguea umbellata* var.
codicifera.

14101. *Phacelia humilis*

14102. *Ceanothus velutinus*

14103. *Trifolium longipes.*

14104. *Lupinus Lobbii*

14105. *Senecio tugoriphyllus.*

14106. *Allium Austinae*

14107. *Eriogon salicifolius*

Nevada
Aug. 3, 1938.

Mt. Rose meadows north of
Incline, Washoe Co., 8500 ft.
On "Third Creek."

14108. *Salix Lemmonii*

14109. *Salix orestera*

14110. *Hackelia floribunda*

14111. *Lupinus procerus*

14112. *Erysimum capitatum*
var. *perenne*

14113. *Colochortus Leichtlinii*

14114. *Caltha biflora*

14115. *Castilleja miniata*

14116. *Oenothera xylocarpa*.

Nevada.

Aug. 3, 1938.

14117. *Castilleja pinnatum*
14118. *Castilleja pinnatum*
14119. *Minulus Lukashovii*
14120. *Draba stenoloba* var. *nana*
(det. Hitchcock)
14121. *Oenothera columbianum*
14122. *Helphium glaucum*
14123. *Penstemon glaber*
14124. *Aquilegia truncata*
14125. *Aquilegia truncata*
14126. *Epilobium oregonense*
14127. *Epilobium alpinum*

Nevada

Aug. 3, 1938.

Mt. Rose meadows north of Incline,
8500 ft., Washoe Co. On "Third
Creek."

14128. *Epilobium brevistylum*.

14129. *Saxifraga pierrae*.

14130. *Cryptantha schneella*

14131. *Gympterus californicus*

14132. *Carex scopulorum*

14133. *Carex jonesii*

14134. *Carex rostrata*

14135. *Carex capitata*

14136. *Carex subnigricans* nsp.

Nevada
Aug. 3, 1938.

14137. *Carex nevada*

14138. *Carex fasciculata*

14139. *Carex heteronema*

14140. *Carex speciosa*

14141. *Carex Preslii*

14142. *Carex stramineiformis*

14143. *Carex integra*

14144. *Carex festivella*

Nevada

Aug. 4, 1938.

Near Galena Creek divide near
head of "Third Creek," 9000⁹⁵⁰⁰ ft.,
Washoe Co.

14145. *Carex nigricans*

14146. *Carex scopulorum*

14147. *Minimus* ^{Breweri} ~~nepheloides~~?
Corolla-lobes a little unequal.

14148. *Minimus nepheloides*?
Corolla tubular & nearly regular

14149. *Minimus leptaleus*
Corolla-lobes directed forward,
not flaring or spreading

14150. *Lewisia nevadensis*

14151. *Viola purpurea* ssp.
integrifolia

Nevada
Aug. 4, 1938.

14152. *Raietia argentea*.

14153. *Urtica densiflora* var.
(det. Hitchcock)

14154. *Carex subnigrans* nsp.

High ridges at head of Galena Creek
near Mt. Rose, Washoe Co., 9500-
10500 ft.

14155. *Penstemon clavatus*.

14156. *Lupinus meionanthus*

14157. *Sonchella Kingii*

14158. *Leptodactylon pungens*

14159. *Astragalus Sonchensis*.

14160. *Senecio oerops*.

Nevada

Aug. 4, 1938.

High ridges at head of Galena
Creek near Mt. Rose, Washoe Co.

9500 - 10500 ft.

14161. *Lupinus*

14162. *Penstemon glaber* var.

14163. *Arabis platysperma* ?

14164. *Melica stricta*.

14165. *Phacelia* ~~triflora~~ *triflora* var. *triflora*

14166. *Epilobium obcordatum* +
var. *puberulum*.

14167. *Railla-della nevadensis*.

14168. *Castilleja pollicaris*.

14169. *Phoenocaulis cheiranthoides*

Nevada
Aug. 4, 1938.

14170. *Linum Lewisii*
14171. *Eriogonum umbellatum* var.
14172. *Festuca ovina* var.
brachyphylla.
14173. *Valeriana californica*
14174. *Eriogonum impositum*.
14175. *Senecio oerops*.
14176. *Senecio Sutcladonii*
14177. *Polemonium Beattyi*.
14178. *Oxyria digyna*
14179. *Galium hypotrichum*
14180. *Phacelia*

Nevada

Aug. 4, 1938.

High ridges at head of Galena
Creek near Mt. Rose, Washoe Co.
9500 - 10500 ft.

14181. *Eriogonum* *Lobbii*

14182. *Oreocarya* *echinoides*

14183. *Penstemon* *globosus*.

14184. *Astragalus* *cymboides*.

14185. *Allium* *tribactatum*

14186. *Antennaria* *alpina*.

14187. *Potentilla* *Breweri*.

14188. *Ribes* *montigenum*

14189. *Lupinus* *Breweri*.

Nevada

Aug. 4, 1938.

14190. *Lupinus alpinus* Miller .
14191. *Castilleja pinctum*
14192. *Polygonum shastense*
14193. *Draba* - -
14194. *Arenaria Nuttallii* var.
gracilis .
14195. *Minuartia densa*
14196. *Gilia montana* - Topotype
14197. *Phlox Douglasii* .
14198. *Ranunculus oxyotus*
14199. *Eriogonum rhodanthum* .
14200. *Solidago corymbosa* .

Nevada

Aug. 4, 1938.

High ridges at head of Galena
Creek, near Mt. Rose, Washoe Co.

9500-10500 ft.

114201. *Rumex paucifolius*

114202. *Poa juncea*

juncea - *juncea*

114203. *Carex Haydeniana*

114204. *Erysimum*

114205. *Anemone capillaris*

114206. *Penstemon gemiculatus*

114207. *Crataegus Beringiana*.

114208. *Ligustrum Grayi*.

114209. *Urtica salicifolia* var.

Nevada
Aug. 4, 1938.

14210. *Draba stenoloba* var. *nana*
(Det. Hitchcock)

14211. *Hackelia flabunda*

14212. *Gnaptis californicus*

14213. *Draba*

14214. *Arabis Lemmonii*

14215. *Arabis Lemmonii*

14216. *Arabis Howellii*

14217. *Arabis retrofracta*

14218. *Antennaria dioica*

14219. *Chaenactis Douglasii*
var. *alpina*.

Nevada

Aug. 5, 1938.

Summit of Mt. Rose Highway
above Incline, Washoe Co.
9000 ft.

114220. *Carex Preslii*
114221. *Minulus densus*
Herbage nephritic
- "
Meadows in upper Galena Creek
Canyon sw. of Mt. Rose along
highway, el. ca. 8500 ft. Washoe Co.
114222. *Sphenocarpium capitellatum*
114223. *Juncus macrophyllum*.
macrophyllum
114224. *Juncus longistylis*
114225. *Juncus Mertensianus*
114226. *Carex scopulorum*

Nevada
Aug. 5, 1938.

14227. *Carex Jonesii*

14228. *Carex Hoodii*

14229. *Carex stramineiformis*

14230. *Carex stramineiformis*

14231. *Carex multisetata*

14232. *Carex abrupta*

North side of Slide Mt. on mt.
Rose Highway, 7500 ft., Washoe Co.

14233. *Cirsium* - cf. *utahense*

14234. *Trifolium monanthum*.

14235. *Minuartia densa*

Nevada

Aug. 5, 1938.

N. side of Slide Mt. on mt. Rose
highway, el. ca. 7500 ft.,
Washoe Co.

14236. *Aster Andersonii*

14237. *Senecio Scorzonella*.

14238. *Nanum densum*.

14239. *Eriogonum spargularium*

14240. *Placelia* ~~tristis~~ *sp. congesta*

14241. *Chamaesaracha nana*

14242. *Carex Douglasii*

14243. *Carex rostrata*

14244. *Carex athrostachya*

Nevada

Aug. 5, 1938.

14245. *Carex Douglasii*

14246. *Carex pro gracilis*

Near lower end (east) of Galena
Creek Canyon, ca. 5500 ft.,
Washoe Co.

14247. *Cirsium*

14248. *Phacelia*

14249. *Phacelia* ~~Thalict. sp. nemorosa~~

Near Steamboat Springs, Washoe Co.

14250. *Minuartia Bigelovii* var.
crispulata

Near Franktown, Washoe Co.

14251. *Lupinus confertus*.

Nevada — California

Gardnerville, Douglas Co., Nevada.

Aug. 5, 1938.

14252. *Cicuta Douglasii*

14253. *Pastinaca sativa*

Holbrook, Douglas Co., Nevada

Aug. 5, 1938.

14254. *Cirsium candidissimum* from
flowers light rose, leaves green.

Aug. 5, 1938.
Jopaz Lake, Mono Co., Calif.

14255. *Carex nebrokensis*

East end of Sonora Pass near Falls

Hot Springs, Mono Co. Aug. 6, 1938.

14256. [*Sium* sp.] *Plantago*

14257. *Iris missouriensis*

14258. *Eriogonum vinivum*

Aug. 6, 1938.

14259. *Lupinus cardatus*.
14260. *Castilleja linariaefolia*
14261. *Eriogonum microthecum*
14262. *Minuartia floribunda*
14263. *Galium multiflorum*.
14264. *Maradella anemionoides*
14265. *Arabis retrofracta*
14266. *Carex orthostachya*
14267. *Carex frax*
14268. *Lappula occidentalis*
14269. *Sidalcea spicata*.

Aug. 6, 1938.

East end of Soda Pass near Fales
Hot Springs, Mono Co.

14270. *Eleocharis bella*

14271. *Eleocharis acicularis*

14272. *Equisetum Funstoni*

14273. *Cirsium*

Fales Hot Springs, Mono Co.

14274. *Cirsium Botrys*

14275. *Sonchus Kingii*

Bridgeport, Mono Co.

14275A *Pyrocerma glomerata*.

14276. *Scirpus nevadensis*

14277. *Hesperochloa pumilus*

Aug. 6, 1938.

14278. *Helypodium brachycarpum*

14279. *Oithocarpus*

Conway Summit n. of Mono
Lake, Mono Co. Aug. 6, 1938.

14280. *Navarretia Breweri*.

14281. *Gaiophytum ramosissimum*.

14282. *Nama densum*.

Near Crestview, Mono Co.

14283. *Carex brevipes*

Aug 7, 1938.

Noldeke Cabin, Whiskey Creek
7000 ft., Mono Co.

14284. *Castilleja disticha*

14285. *Abies turbinata*

14286. *Hesperis flocosa*.

14287. *Penstemon papillatus* Howell
Type locality!

14288. *Artemisia macradenia*.

14289. *Carex aurea*

14290. *Lepidium virginicum*
var. *pubescens*.

14291. *Phacelia*

14292. *Potentilla fruticosa*.

14292A. *Arabis retrofracta*

Aug. 7, 1938.

14293. *Silene montana*.

14294. *Orthocarpus laspidus*

14295. *Crepis acuminata*.

14296. *Agoseris alpestris*

14297. *Juncus bufonius*

14298. *Polygonum saratchense*

14299. *Arnica foliosa*.

14300. *Juncus nevadensis*

14301. *Polygonum Douglasii*

14302. *Juncus orthophyllus*

14303. *Navarretia Breweri*.

Aug. 7, 1938.

Whiskey Creek, 7000 ft., Mono Co.

14304. *Phacelia humilis*

14305. *Monolepis spathulata*

Sagebrush flats + slopes on Whiskey
Creek near the Owens River,
6800 ft., Mono Co.

14306. *Eriogonum capitatum*
(Det. Rosebush)

14307. *Gilia leptomeria*

14308. *Eriogonum Baileyi*

14309. *Eriogonum azaleastrum*

14310. *Eriogonum elatum*

14311. *Chenopodium leptophyllum*

14312. *Chenopodium atrovirens*.

Aug. 7, 1938.

14313. *Castilleja pilosa*.

14314. *Lupinus sabbuleus*.

14315. *Ivesia Congdonii*.

14316. *Astragalus Mortonii*

14317. *Oenothera clavaeformis* var.
cruciformis.

14318. *Oxytheca dendroidea*.

Crooked Creek, 6750 ft., Mono Co.

14319. *Angelica linearifolia*.

14320 *Phacelia bicolor* var.

14321. *Chenactis blauglosii*

14322. *Polygonum sawatchense*

Aug. 7, 1938.

Crooked Creek, 6750 ft., Mono Co.

14323. *Senecio monoensis*.

14324. *Eriogonum microthecum*
Fls. yellow

14325. *Eriogonum microthecum*
Fls. white

14326. *Eriogonum ~~carmineum~~ ^{serotinum} Tenore.*

14327. *Aster adscendens*.

14328. *Symphoricarpos*

14329. *Artemisia graphalodes*.

14330. *Codylanthus pilosus* var.
Blonderi.

14331. *Vicia americana*.

Aug. 7, 1938.

14332. *Carex nebrodensis*

14333. *Euphorbia serpyllifolia*

14334. *Lipidium montanum* -
related to var. *canescens* var. Hitchcock.

14335. *Hippurus vulgaris*

14336. *Mentzelia dispersa*.

14337. *Hemizonia Wheeleri*.

14338. *Chamaebatraria Millefolium*

14339. *Thelypodium laciniatum*

14340. *Solidago elongata*.

Aug. 2, 1938.

meadow & pumice slopes S.
of Little Round Valley, Mono Co.,
7000 ft.

14341. *Minuartia pilosa*

14342. *Streptanthus pilosus*.

14343. *Chenopodium Fremontii*

14344. *Penstemon flavidus*
Corolla rosy-pink.

14345. *Monolepis spathulata*

14346. *Gilia tenuiflora* Triep.
Limb bright pink when fresh.

14347. *Potentilla biennis*

14348. *Eriogonum cernuum* Tenore

Aug. 7, 1938/

14349. *Coldenia Nuttallii*

14350. *Galium multiflorum*.

14351. *Parnassia californica*

14352. *Orobancha Grayana*
Very abundant.

14353. *Phacelia*

Limbs lavender-blue. Among
volcanic rocks in crevices under
pinon.

Coolidge Creek, 6700 ft., Mono Co.

14354. *Senecio hydrophilus*.

14355. *Cirsium*.

Fls. light purple

Aug. 7, 1938.

Rock Creek canyon n. of Sherwin
Hill, Mono Co.

14356. *Betula fontinalis*

14357. *Oenothera californica* -

Summit of Sherwin Grade,
Mono Co. Elevation 6500 ft.

14358. *Sphaeralcea ambigua*
monticola.

14359. *Galium Munzii*

14360. *Eriogonum deflexum* ssp.
Watsonii?

14361. *Eriogonum Hermannii*

14362. *Eriogonum nudosum* ssp.
monense - Types!

14363. *Scrophularia californica*

14364. *Eriogonum vinnosum* ssp.
cominatum

Aug. 7, 1938.

14365. *Iva nevadensis*.

Sherwin Grade, Mono Co.

14366. *Eriogonum brachyanthum*

14367. *Eriogonum nudicaule*

14368. *Eriogonum maculatum*

14369. *Oenothera heterochroma*
var. monoensis

14370. *Eriogonum inflatum*

14371. *Clematis lutea*.

14372. *Stephanomeria Parryi*.

14373. *Rosa puberula*.

14374. *Cyperus inflexus*

Aug. 8, 1938.

Alkali flats of Long Valley near
Owens River east of Whitmore
Tub Springs, Mono Co.

14375. *Cleomeella parviflora*.

14376. *Nitrophila occidentalis*

14377. *Atriplex phyllostegia*

14378. *Lupinus adenensis*.

14379. *Oxytheca luteola*

14380. *Guzmania Kingii*

14381. *Atriplex pusilla*.

14382. *Phacelia* ^{*pusilla*}

14383. *Astragalus* [*Lemmonii* var.]
Lemmonii - *Hemlock* *var.*

Aug. 8, 1938.

14384. *Eriogonum montanum*.

14385. *Eriogonum ampullaceum* Howell.

14386. *Monolepis pusilla*

14387. *Calyptridium roseum*

14388. *Pyrocoma glomerata*

14389. *Thelypodium brachycarpum*.

14390. *Spartina gracilis*

14391. *Atriplex truncata*

14392. *Scirpus nevadensis*

14393. *Pyrocoma* - aff. *P. racemosa*.

14394. *Atriplex truncata*

Aug. 8, 1938.

Alkali flats of Long Valley e. of
Whitmore Hot Springs near the
Owens River, Mono Co.

14395. *Puccinellia Lemmonii*

14396. *Tamacetum potentillifolius*

14397. *Chrysothamnus concolor*

14398. *Atriplex truncata*

14399. *Astragalus Pulsiferus* var.

Owens River, ca. 7000 ft., Mono Co.

14400. *Ceratophyllum demersum*.

14401. *Ranunculus aquatilis*

14402. *Zinnichellia palustris*

14403. *Myriophyllum spicatum*.

Aug. 8, 1938.

Yamamouth Lakes Basin, Mono Co.

14404. *Brodiaea ixioidea*

14405. *Sweetia* - *Fraseria speciosa*.

14406. *Lupinus*

14407. *Pyrola pallida*

14408. *Thalictrum Fendleri*.

14409. *Epilobium*

14410. *Eriogon salicifolius*.

14411. *Arabis rectissima*?

14412. *Rumex occidentalis*

14413. *Physopsis Breweri*.

Aug. 8, 1938.

Mammoth Lakes Basin, Mono Co.

14414. *Arabis rectissima*.

14415. *Phacelia*

14416. *Cirsium*

14417. *Salix Eastwoodiae*

14418. *Eriogonum Breweri*.

14419. *Aster leucanthemifolius*?

14420. *Solanum Xanthii*

1

14421. *Desmanthus Sonnei*.

1

14422. *Phacelia nuttalliana*

1

14423. *Castilleja*

1

Aug. 8, 1938.

14424. *Carex Whitneyi*

14425. *Eriogonum deductum*.

14426. *Carex Kelloggii*

14427. *Carex heteroneura*

14428. *Carex nebrascensis*

14429. *Carex subfusca*

14430. *Carex teneraeformis*

14431. *Carex brevipes*

14432. *Carex multicostrata*

14433. *Carex frusta*

14434. *Carex abrupta*

14435. *Carex ~~Rosae~~ ^{fruticulosa}* (Leachler.)

14436. *Luzula parviflora*

Aug. 9, 1938.

Convict Lake, Mono Co.

14437. *Aquilegia truncata*.

14438. *Castilleja*

14439. *Phacelia*

14440. *Rosa puberula*

14441. *Alnus sinuata* Sonnei.

14442. *Astragalus Matoni*.

Pumice flats between Mammoth
and Minaret Summit, Mono Co.,

14443. *Luzula divaricata*

14444. *Lupinus myosotis* var.
ericalyx.

14445. *Arabis rectissima*.

Aug. 9, 1938.

14446. *Erysimum*

14447. *Eriogonum deductum*

14448. *Eriogonum incanum*

14449. *Poa nervosa*.

14450. *Arabis Howellii*?

14451. *Penstemon*

14452. *Phacelia* *arguta* 5000

14453. *Carex* *specifica*

14454. *Carex Preslii*

14455. *Carex Preslii*

Aug. 9, 1938.

Devil's Postpile, Madera Co.

14456. *Carex integra*

14457. *Carex fructa*

14458. *Eriogonum deductum*.

14459. *Castilleja disticha*

14460. *Chaenactis nevadensis*.

14461. *Phacelia* ~~fragilis~~ *fragilis*
fragilis

Aug. 10, 1938.

Between Devil's Postpile and
Minaret Summit, Madera Co.

14462. *Arabis perennans*

14463. *Agoseris alpestris*

14464. *Arabis rectissima*

Aug. 10, 1938.

14465. *Stephanomeria tenuifolia*
14466. *Arabis repanda*.
14467. *Cheeractis Douglasii*
14468. *Coryx nevada*
14469. *Arabis platysperma*.
14470. *Monardella pallida*.
14471. *Geranium Richardsonii*
14472. *Lilium nevadense* var.
fuscescens.
14473. *Streptanthus tortuosus*
14474. *Castilleja Breweri*.
14475. *Eriogonum umbellatum* var.

Aug. 10, 1938.

Between Heavily's Postpile and
Minaret Summit, Modoc Co.

14476. *Hieracium albiflorum*.

14477. *Hieracium gracile* var.
detonsum.

14478. *Lupinus procerus*.

14479. *Castilleja linearifolia*

14480. *Phacelia longida* etc.
densiphylla.

14481. *Phacelia multistylis*

Minaret Summit, Modoc Co.

14482. *Arabis rectissima*.

14483. *Carex spectabilis*

14484. *Carex heteroneura*

Aug. 10, 1938.

14485. *Carex festivella*

14486. *Salix Eastwoodiae*

14487. *Crepis acuminata*.

14488. *Arabis Beckenwithii* ?

14489. *Castilleja linariaefolia*

14490. *Castilleja Breweri*.

14491. *Arenaria capillaris*.

14492. *Eriophyllum integrifolium*

14493. *Rumex paucifolius*

14494. *Lupinus Culbertsonii*

Aug. 10, 1938.

Dry Earthquake Fault near
Mammoth, Mono Co.

14495. *Lupinus rimae* Eastw., n. sp.

14496. *Lupinus*

5 miles south of Crestview,
Mono Co.

14497. *Eriogonum spargulinum*

14498. *Lupinus monensis* Eastw.
- ! Type!

14499. *Hulsea vestita*

14500. *Astragalus monensis* Bonny
n. sp.!

14501. *Chrysothamnus vulcanicus*.

Crestview, Mono Co.

14502. *Phacelia* *truncata* Gray

truncata

Aug. 10, 1938.

Pineville flats n. of Crestview,
Mono Co.

14503. *Minimus Wolfii*

14504 *Eriogonum spargulinum*

Fern Creek near Gull Lake,
Mono Co.

14505. *Mentha arvensis*.

14506 *Dicostema oblongum*

Leevining Canyon, Mono Co.

14507. *Eriogonum Breweri*.

14508. *Phacelia* *sp. congesta*
Stems very numerous, decumbent.

14509. *Mentzelia congesta*.

14510. *Eriogonum Wrightii* ssp.
trachygynum.

14511. *Phacelia* *sp. congesta*

Leaving Canyon, Mono Co.

Aug. 10, 1938.

14512. *Phacelia heterophylla* (Gray) S. Wats.

14513. *Aster leucanthemifolius*

Mt. Dana meadows, Inyo Co.

Aug. 11, 1938.

14514. *Castilleja Culbertsonii*

14515. *Senecio pauciflorus* var.

Mt. Dana, 10500 ft., Inyo Co.

14516. *Castilleja Breweri*.

14517. *Castilleja Breweri*.

14518. *Castilleja Breweri*

Like preceding but flowers shorter.

All these *Castilleja*s grew together but seemed to represent different strains.

Aug. 11, 1938.

14519. *Carex subquicoma* N. Sp.

14520. *Carex filifolia*

14521. *Carex venaculosa*

14522. *Lupinus procerus*.

14523. *Castilleja miniata*

Mat. Blanca, 10800 ft., Inyo Co.

14524. *Phacelia* ~~fruticulosa~~ ~~fruticulosa~~

14525. *Cirsium*

14526. *Arenaria Nuttallii*

14527. *Valeriana californica*

14528. *Ranunculus oxynotus*

Aug. 11, 1938.

Mt. Dana, 11000 ft., Inyo Co.

14529. *Phlox caespitosa*.

14530. *Lupinus darwini*

14531. *Leptodactylum pungens*.

14532. *Senecio Minii*

14533. *Lewisia megalopetala*

14534. *Carex ~~heterochaeta~~ Helleri*.

14535. *Carex spectabilis*

14536. *Draba Lemmonii*

Det. Hitchcock

Mt. Dana, 12000 ft., Inyo Co.

14537. *Erigeron pygmaeus*.

14538. *Castilleja nana*

Aug. 11, 1938.

14539. *Lupinus danaus bicolor*, nov.

At this elevation all the flowers
are deep blue.

14540. *Kentrophyta tagetaria*

14541. *Arabis Lemmonii*.

14542. *Podiatera nevadensis* (Gray) Wats

Mt. Dana, 12500 ft., Inyo Co.

14543. *Draba Fernaldii*

Mt. Hitchcock.

14544. *Hulsea algida*

14545. *Androsace septentrionalis*

var. *subumbellata*.

14546. *Corydallus danaensis* n. sp. !!!

14547. *Polemonium eximium*

Only flowering plant seen on summit.

Aug. 12, 1938.

Inlunne Meadows, Inlunne Co.

14548. *Carex Reynoldsii*

14549. *Carex scopulorum*

14550. *Carex Douglasii*

14551. *Carex vesicaria*

14552. *Carex athrotricha*

14553. *Carex spectabilis*

14554. *Carex gymnoclada*

14555. *Carex frusta*

14556. *Carex teneraeformis*

14557. *Carex brevipes*

Aug. 12, 1938.

14558. *Carex multicaulata*
14559. *Carex Preslii*
14560. *Raillardella scaposa*.
14561. *Senecio Covillei*.
14562. *Lupinus selinus*
14563. *Solidago elongata*.
14564. *Lupinus Covillei*
14565. *Polygonum Douglasii*
14566. *Pyrocoma asarioides*
Wet ground at Soda Springs.
Isotype!
Teraya Canyon above the Lake,
Mariposa Co.
14567. *Carex mariposana*

Aug. 13, 1938.

Lake Zenaga, Mariposa Co.

14568. *Potentilla flabellifolia*
var. *Goyi*.

14569. *Juncus nevadensis*

Snow Flat, Mariposa Co.

14570. *Luzula sudetica*

14571. *Scirpus cuniger*

14572. *Scirpus Clementis*

14573. *Scirpus Congdoni*

14574. *Luzula parviflora*

14575. *Carex multicastrata*

14576. *Carex subfusca*

14577. *Carex illota*

Aug. 13, 1938.

14578. *Carex gymnoclada*

14579. *Carex fasciculata*

Porcupine Flat, Mariposa Co.

14580. *Carex proctori*

14581. *Carex brevipes*

Aspen Valley, Inyo Co.

14582. *Luzula multiflora* var.
canosa

14583. *Phacelia* *multiflora*

14584. *Lupinus Andersonii*

2 miles west of Aspen Valley, Inyo Co.

14585. *Carex Sartwelliana*

14586. *Carex amplifolia*

14587. *Lupinus longipes*.

14588. *Navaretia viscidula*
Wet slope at Lake Lagunitas
(Heam), Marin Co. Aug. 21, 1938.

Swiss Marshes near Swiss,
Solano Co. Aug. 28, 1938.

14589. *Eryngium Hartwegii*
Border of tidal slough where
base of plants are submerged
at high tide.

14590. *Cirsium hydrophilum*
Flowers light lavender rose.

14591. *Parola macrostachya*

14592. *Lathyrus jepsoni*

14593. *Lycopus lucidus*.

14594. *Convolvulus Sepium*

14595. *Scirpus pacificus*

14596. *Arctostaphylos Manzanita*

Decorations for Miss Eastwood's
80th birthday party collected on the
Booth ranch, Knights Valley,
Sonoma Co. Jan. 15, 1939.

14597. *Garrya Fremontii*

Near summit of Wooden Valley
grade above Napa, Napa Co.
Feb. 5, 1939.

14598. *Salix Coulteri* Anders.

Near the head of upper Cascades
Collected gulch, Mt. Tamalpais,
Marin Co. Mar. 26, 1939.

Apr. 23, 1939.

Blythedale Canyon, Mill Valley,
Marin Co.

14599. *Jestuca* — *Vulpia dentata*
var. gracilis

14600. *Bromus carinatus*

14601. *Leucon annuus*

14602. *Eriophyllum lanatum*
var. macrodonum

14603. *Stachys*

14604. *Phacelia* ?

14605. *Gilia*

14606. *Solanum*

14607. *Oxalis pilosa*

14608. *Sparganium maritima* ?

Apr. 23, 1939.

Corte Madera Ridge, Mt. Diablo,
Marin Co.

14609. *Lotus juncea*

14610. *Poa Howellii*

14611. *Festuca dentonensis*

14612. *Hesperia californica*

14613. *Samolus tuberosa*

14614. *Monarda perfoliata*

14615. *Monarda spaldingii*

Summit East Peak, Mt. Diablo

14616. *Lotus stenosus*

Upper part of Shrockmather Trail,
Mt. Lamolpaio. Apr. 23, 1939.

14617. *Festuca dentovensis*

14618. *Montia apiculata*

Cascade Canyon, Marin Co.

Apr. 23, 1939.

14619. *Nemophila*

14620. *Nemophila*

St. Ignatius Church, San Francisco

Apr. 25, 1939.

14621. *Oxalis corniculata* & var.
depurpurea.

Apr. 30, 1939.

Pope Creek Canyon near Walter
Springs, Napa Co.

14622. *Delphinium hesperium* ?

14623. *Festuca microstachya*

14624. *Festuca Eastwoodii*

14625. *Astragalus Clavatus*

14626. *Navaretia cotulaefolia*
Colla pale creamy-yellow.

14627. *Iris longisiphon*

14628. *Lathyrus Bolanderi*

14629. *Lonchium canifolium*
var. *purpureum*

14630. *Sisyrinchium bellum*

Apr. 30, 1939.

Pope Creek Canyon near Walter
Springs, Napa Co.

14631. *Lagophylla distitoma*

14632. *Melica Jureyana*

14633. *Ceanothus Japanicus*

14634. *Placelia* ~~longe~~
Coolla tubular - cylindrical
in anthesis, white.

Between Pope Valley and
Chico Valley Stn., Napa Co.

14635. *Lupinus formosus*

Golden Gate Park, 25th Ave. entrance.

May 4, 1939.

14636. *Carduus*

Sausalito, Marin Co. - May 7, 1939

14637. *Vicia* ~~*angustifolia*~~

14638. *Beta vulgaris*

14639. *Sparganium angustifolium*

North end of Tiburon on Redwood
Highway, Marin Co. May 7, 1939.

14640. *Lupinus densiflorus*

Nearly white tinged with rose,
some individuals more or less yellow
& passing into the following.

14641. *Lupinus densiflorus* *menziesii*

Petals yellow, usually fading
orange or reddish.

May 7, 1939.

Serpentine hill just north of
Middletown, Lake Co.

14642. *Lomatium*

Serpentine hill near Putah Creek
bridge north of Middletown,
Lake Co.

14643. *Ceanothus*

2½ miles east of Lower Lake on
road to Knoxville, Lake Co.

14644. *Lupinus*

8½ miles east of Lower Lake on
road to Knoxville, Lake Co.

14645. *Cercocarpus*

Reiff P. O., Lake Co.

14646. *Lupinus latifolius*

14647. *Cirsium*
Fls. white.

May 7, 1939.

In Lake Co. near Napa Co. line
on road from Lower Lake to Knoxville

14648. *Viola*

Showing range of pubescence on
plants at one place.

14649. *Zygadenus*

14650. *Cypripedium*

14651. *Ceanothus*

On Lower Lake - Knoxville road at
Lake Co. line, Napa Co.

14652. *Garrya*

14653. *Fremontia nopensis*

$3\frac{1}{2}$ miles from Knoxville on Lower
Lake Rd., ^{Napa} Lake Co.

14654. *Cornus*

Near cemetery just east of Napa,
Napa Co. May 7, 1939.

14655. *Salvinella*

14656. *Schella*

Lewisia rediviva grows on the
same rocky opens.

Roas, Marin Co. May 14, 1939.

14657. *Lathyrus Bolanderi*

14658. *Melica Torreyana*

14659. *Trisetum cuneatum*

14660. *Agoseris* ~~*platensis*~~

Phoenix Lake, Marin Co.

14661. *Agrostis anglica*

14661A. *Lathyrus Torreyi*

14662. *Stipa lepida*

Between Phoenix Lake & Lake
Lagunitas, Marin Co. May 14, 1939.

14663. *Uropappus Lindleyi*
14664. *Polystichum Dudleyi*
New for Marin!
14665. *Festuca*
14666. *Melica Harfordii*
14667. *Festuca*
14668. *Plectritis*
14669. *Grindelia hirsutula* ~~brunneovirens~~
Rays 27 in 2 heads.
- Lake Lagunitas near dam.
14670. *Deschampsia dentbivoides*
14671. *Meibomia Douglasii*
14672. *Plantago truncata firma*

May 14, 1939.

Lower end of Berry Trail near Lake
Tognitos, Marin Co.

14673. *Convolvulus*

Berry Trail between Lake Tognitos
and ^{Rifle Camp} ~~Collier Spring~~, Marin Co.

14674. *Poa Howellii*

14675. *Festuca*

14676. *Campanula angustiflora*

14677. *Lithophygnon heterophyllum*
Purple-red bulbils in leaf-axils.

Serpentine ^{west} east of Collier Spring
on North Side Trail, Mt. Tamalpais,
Marin Co.

14678. *Melica Jonesiana*

14679. *Convolvulus*

May 14, 1939.

14680. *Calamagrostis purpurea*

14681. *Streptanthus batrachopus*

J. L. Morrison

Topotype! The tiny glaucous plants almost invisible against the gray-green serpentine gravel in which they grow.

Near West Peak on n. side of Mt.
Diablo, Marin Co.

14682. *Festuca Eustrachne*

14683. *Festuca pacifica*

Nova Trail below West Point, Mt.
Diablo, Marin Co.

14684. *Marah*

Fruit 5-seeded, attenuate into pedicel and long-beaked. In canyon with redwood, aralia, etc.

Azulea Flat, Mt. Tamalpais,
Marin Co. May 14, 1939.

14685. *Eleocharis rostellata*

Cascade Canyon, Marin Co. May 14.
14686. Marsh

Mill Valley, Marin Co. May 14-39
14687. *Brassica geminata*

West side of Tiburon, Marin Co.
May 21, 1939.

14688. *Lupinus fornosus*

14689. *Monardella*

14690. *Lupinus fornosus*

14691. *Brassica napa*

All parts smooth + glabrous.

14691A. *Lathyrus latifolius*
Common at Tiburon.

May 21, 1939.

Tiburon, Marin Co.

14692. *Agoseris aurantiaca*

14692A. *Hudleya caespitosa*

14693. *Festuca rubra*

14694. *Melica Torreyana*

14695. *Colanagrostis purpurea*

14696. *Cuscuta*

14697. *Grindelia hirsutula* ~~fruticosa~~

On shale near Shelter Cove.

Reys 35, 32, 31.

14698. *Phacelia*

14699. *Ribes Menziesii leptocoma*

14699A. *Plectritis*

14700. *Marah* - ~~fruticosa~~

Woods at Shelter Cove.

May 21, 1939.

East side of Tiburon, Marin Co.

14701. *Monarda*

14702. *Lomatium intricatum*

14703. *Lupinus formosus*

14704. *Castilleja Wightii rubra*

14705. *Oxalis pilosa*

14706. *Rumex crispus* ? ?

Sausalito, Marin Co.

14707. *Phacelia*

Corolla truly campanulate.

14708. *Lupinus noularis*

June 4, 1939.

Lagunitas, Marin Co.

14709. *Neurophila*

Sweeney Ridge on road to

Pt. Reyes, Marin Co.

14710. *Ceanothus*

Spreading bush 1-2 ft. tall.

Rocky or sandy slopes near

Pt. Reyes lighthouse, Marin Co.

14711. *Lotus juncea*

14712. *Sagina crassicaulis*

14713. *Grindelia pinnatifida*

Ray 33, 32.

14714. *Godetia amoena*

Stems low & spreading; buds erect

14715. *Branes maritimus*

14716. *Chrysanthemum*

June 4, 1939.

New Lighthouse, Pt. Reyes,
Marin Co.

14717. *Sedum spathulifolium*
Differing from inland form in
shorter thicker leaves, almost
glaucous covering and congested cyme
of smaller flowers.

14718. *Cirsium quercetorum*
Plants perennial from rootstocks;
acaulescent or very short-caulescent;
corolla white; anthers white or pale
lavender.

14719. *Cirsium Andrewsii*
Plants from top-rot, biennial,
2-3 ft. tall, broadly much-
branched. Corolla rosy-purple,
anther-tube lavender.

June 4, 1939.

The two preceding grew together and with them were hybrids of two sorts - one resembling the first, the other resembling the second:

14720. *Cirsium*

Probably a hybrid (or albino?)
resembling No. 14719. Erect biennial
2-3 ft. tall; corolla white,
tubular - tube lavender.

14721. *Cirsium Andrieuxii* x *glaucostemum*

Obviously a hybrid between 14718
and 14719. - Plants seemingly from
rootstocks (several stems from ground
about central point and several
each stems about a foot or two apart).
Plants 1-1½ ft. high with widely
spreading branches. Corolla white,
tubular lavender.

June 4, 1939.

Herbs & acaules near radio
station, Pt. Reyes Peninsula,
Marin Co. - Near "Pt. Reyes P.O."
of U.S.G.S. maps.

14722. *Carex lanuginosa*

14723. *Stellaria borealis*

var. *Bongardiana*

14724. *Sidalcea rhymata*

Very robust. Petals pinkish

14725. *Viola adunca*

14726. *Scirpus paludosa*

14727. *Chrysanthemum villosa*

14728. *Lupinus grandifolius*

Banner sharply reflexed and the
outer margins somewhat involute
producing a beak, the middle

June 4, 1939.

part rosy-veined, the lower part
lavender - blue-veined; wings
purple - blue-veined, the whole purplish-
blue (lighter between veins); keel
white or lavender-tinted on lower half,
purple - black at tip. The middle
part of banner early turning to
coffee-brown, the wings becoming
brownish-tinted.

Chamaecrista

14729. *Lupinus* ~~Lagneux~~ *Eastw.*

Brood sprouting plants much
broader than tall, to $1\frac{1}{2}$ ft. tall;
lower stems woody, shrubby.

Margin of banner + wings lavender-
blue, middle of banner whitish,
keel lavender except purple tip.

June 4, 1939.

On the dunes & downs of Pt. Reyes Park near the radio station is a remarkable assemblage of low & bushy perennial lupines which seem to have originated through hybridization. Habit varies from prostrate to erect shrubby, pubescence varies from appressed-sericeous to long-villous, color of flower varies from white to yellow and blue and various combinations. Lupinus Layneae is one of this aggregation and the following are samples of the variations displayed:

14730. Lupinus arborescens

Bush 2-3 ft. tall & as broad or twice as broad. Flowers clear canary-yellow.

June 4, 1939.

14731. *Lupinus arboreus*

Similar to no. 14730 but stems
appressed - pubescent.

14732. *Lupinus arboreus*

Buds (both calyx + corolla) pale
yellowish - white. Flowers when
first open: banner yellowish - white
with faint hint of lavender at base,
wings same but upper part veined
lavender - blue near claws + with
blue blotch at upper distal end;
the keel similar except purple -
black tip. Later flowers: banner
violet or pale purple, the wings
as similar but decidedly paler
blue, the keel unchanged. The
whole fades to a pale buff.

June 4, 1939.

With preceding:

14733. *Lupinus Micheneri*

Stems subprostrate. Pods pale greenish-yellow except exposed blue part of keel. Banner at first canary-yellow, usually fading sordid-yellow, rarely (as in one flower) purplish. Wings lavender, the color more intense at the distal end. Keel pale yellowish-white except black-purple tip.

14734. *Lupinus Micheneri*

Stems subprostrate. Pubescence spreading. Banner yellowish or decidedly tinged with lavender. Wings & keel as in preceding.

14735. *Lupinus rivularis*

Stems erect or strongly ascending. Flowers similar in color to the

June 4, 1939.

Two preceding but colors more intense & darker. Flowers larger.

14736. *Lupinus Micheneri*

Stems prostrate. Banner very pale yellowish, especially in the middle, the margin tinged with lavender and at base deeper bluish-lavender. Wings deep purple-blue. Keel light, whitish, veined to keel, the tip bluish-purple. - N. B. Miss Eastwood said this was near *L. litoralis*.

14737. *Lupinus Micheneri*

Similar to preceding and having persistent petioles but not a little looser. Flowers paler, the banner at first yellow becoming purplish; wings pale lavender at base, deep lavender distally.

June 4, 1939.

becoming deeper throughout; keel white with black-purple tip.

14738. *Lupinus arboreus*

Bush 3 ft. tall & about as broad.

Banner at first pale, whitish tinged with yellow, blue at very base. Wings prominently veined with bluish-lavender or a more even lighter lavender, deeper tinged distally. Keel white, black-purple tipped. Banner becoming light violet, deeper than wings.

See also Eastwood & Howell collected.

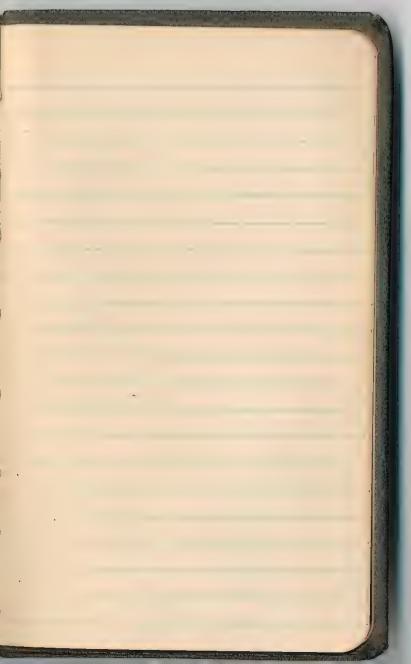
May 28 at the point: No. 7385 +

7392.

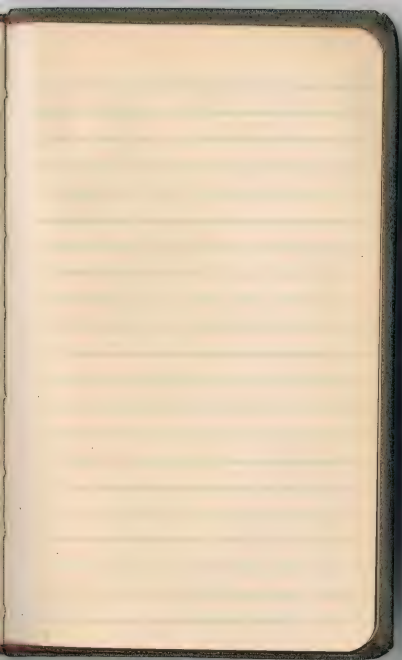
like *L. variicolor*

A prostrate or subprostrate *Lupinus*, common along road, was not collected.

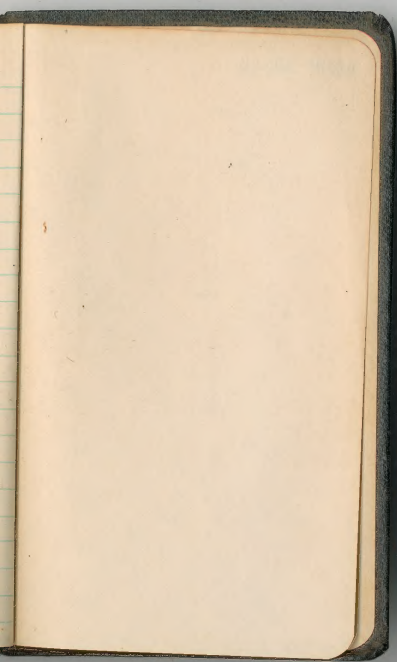
True *L. rivularis* not seen on the peninsula, but seen on road to Limerick.











B&P№ 3810½

